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AN - 1995-027722 [04]

AP - JP19930138855 19930430

PR - JP19930138855 19930430

TI - Mfg. high performance electret - comprises mixing non-polar high polymer and polar high polymer, moulding the mixt. and irradiating with ionising radiation

IW - MANUFACTURE HIGH PERFORMANCE ELECTRET COMPRISE MIX NON POLE HIGH POLYMER POLE HIGH POLYMER MOULD MIXTURE IRRADIATE IONISE RADIATE

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PN - JP6313058 A 19941108 DW199504 C08J7/00 003pp

IC - C08J7/00 ; C08L101/00 ; H01G7/02

AB - J06313058 The method comprises mixing nonpolar high polymer and polar high polymer, moulding the mixture, and irradiating it with ionising radiation. Pref. nonpolar high polymer is polyethylene. Polar high polymer is chlorinated polyethylene or polyvinyl chloride. Nonpolar high polymer such as polyethylene and polar high polymer such as chlorinated polyethylene are mixed, kneaded and moulded into e.g. sheet, and ionising radiation such as electron ray is used to irradiate the sheet, forming an electret.

- USE/ADVANTAGE - Provides high performance electret useful for e.g. air-conditioner or medical material. As the electret is hydrophobic, electric charge on the electret disappears hardly even in contact with water. The high performance of the electret can last for long period. The electret can be simply made by the irradiation of ionizing radiation.

- In an example, a high performance electret was prepared by mixing low density polyethylene (80 wt. %) and chlorinated polyethylene (20 wt. %), moulding the mixture into a sheet and irradiating the sheet with electrons of 5 Mrad.(Dwg.0/0)